

### **III. REMARKS**

In the Office Action, claims 1-9 were rejected under 35 U.S.C. 103 as being unpatentable over Hum (US 6714133) for reasons set forth in the Action.

The claims are amended to distinguish the claims from the teachings of the cited art, and are believed to contain allowable subject matter in view of the following argument.

Hum (Figs. 4A-4B) discloses a garment with coil-shaped antennas, which the examiner regards as being sufficiently close to the present garment with its coil antennas to sustain the rejection under 35 U.S.C. 103. However, it is believed that the present invention with its arrangement of clothing and coil antennas (as shown in Figs. 2 and 3) obtains greater selectivity (present specification, paragraph linking pages 5-6) and greater directivity (following paragraph) than is provided in the system of Hum.

As is well known in electromagnetic theory, the use of two flat coils in forming the radiation pattern of an antenna provides a radiation pattern depending on the relative locations of the coils and relative orientations of the planes of the flat coils. When the planes of the two coils are parallel, the main lobes of their respective directivity patterns are parallel. This gives a resulting radiation pattern of the combination of the two coils having a sharper lobe than the lobe of either one of the coils patterns. As a result, there is improved directivity from the use of the two coils, as compared to the use of a single coil.

The figures of Hum do not show gloves with coil antennas thereon. In the case of the garment, there are coil antennas mounted on the two legs with orientation of the planes of the coils being normal to the axes of the legs. Similarly, with respect to the arms of the Hum garment, the coil antennas are mounted with the planes of the coils being normal to the axes of the sleeves. With respect to the Hum shirt (Fig. 4A), there are two coil antennas mounted with their respective planes being parallel, with a similar configuration to the coils mounted in the seat of the pants (Fig. 4B).

Thus, it is believed that the Hum arrangement is set up to maximize the capacity to detect objects located at a relatively large distance from the person, while the present arrangement provides the advantage of examining small objects located at relatively small distances from the person, particularly from the person's hands. An example of the utility of the present invention would be the locating of medicinal pill bottles or dental floss packages in the situation wherein the packages of different brands have become mixed up. In the foregoing example, the parallel orientation of the coil antennas in the present invention (coil plane parallel to cuff axis in Fig. 2, or parallel to palm of glove in Fig. 3) produces an improved electromagnetic directivity pattern when the person's hands are placed adjacent the articles to be selected. The system of Hum does not produce the same relatively high directivity pattern when the person's hands are placed near to the articles to be selected.

In the present invention, it is noted that the parallel arrangement of the planes of the flat coils is found with the arms and the hands in their normal positions. More specifically,

when the arms of the person are hanging downwards, as is normal in the case of a standing person, the coil planes of the cuff-mounted coils are parallel. Also, in this orientation of the person's arms, the person's palms face each other and, hence, the palm-mounted coils are parallel. Furthermore, if the person places his hands in the customary position of two hands on a flat surface, such as on a table or a railing, the planes of the palms of the hands are parallel.

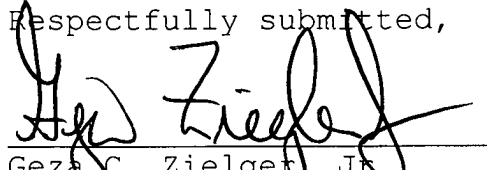
Such a situation does not result with the Hum system when the person places his arms and hands in the foregoing normal positions of the holding of one's arms and hands. Therefore, the Hum system is distinguishable from the present invention, and does not provide the added selectivity from the directivity of the electromagnetic radiation pattern as found with the present invention.

In order to emphasize the foregoing distinction between the prior art and the teachings of the present invention, the present claims are amended by describing the orientations of the flat coil antennas in accordance with orientations depicted in present Figs. 2 and 3. This is believed to overcome the rejections under 335 U.S.C. 103 so as to obtain allowable claims.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

A check in the amount of \$120.00 is enclosed for a one-month extension of time. The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

  
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Reg. No. 44,004

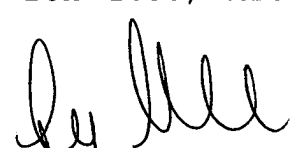
24 October 2005  
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